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fixing a polymer electrolyte film to a gas-impermeable dense carbon separator,  
wherein a gas flow path is formed with the surface of each unit cell;  
causing the polymer electrolyte film to have a water content of not greater than 4,  
which is expressed as a molar fraction of  $H_2O$ ; and  
bonding the polymer electrolyte film to the carbon separator with an adhesive having  
a modulus of elasticity of not greater than 10 MPa after cure.

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8. (Twice Amended) A method of manufacturing a fuel cell by fixing a polymer  
electrolyte film to a gas-impermeable dense carbon separator, said method comprising the  
steps of:  
providing an adhesive having a modulus of elasticity of not greater than 10 MPa after  
cure; and  
bonding the polymer electrolyte film to the carbon separator with the adhesive.

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17. (Twice amended) A fuel cell, comprising:  
a gas-impermeable dense carbon separator; and  
a polymer electrolyte film that has a water content of not greater than 4, which is  
expressed as a molar fraction of  $H_2O$ , and is bonded to the carbon separator with an adhesive  
having a modulus of elasticity of not greater than 10 MPa after cure.

18. (Twice Amended) A fuel cell, comprising:  
a polymer electrolyte film;  
a gas-impermeable dense carbon separator; and

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an adhesive that is used to bond the polymer electrolyte film to the carbon separator and has a modulus of elasticity of not greater than 10 MPa after cure.

19. (Twice Amended) A fuel cell, comprising:

a polymer electrolyte film;

a gas-impermeable dense carbon separator; and

an adhesive that is used to bond the polymer electrolyte film to the carbon separator and has a durometer A hardness of not greater than 90 after cure.

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